# Bacterial Cell Counts, biovolumes and biomass per taxon from epifluorescence microscopy from R/V Endeavor cruise EN321 in the Gulf of Maine and Georges Bank in 1999 as part of the U.S. GLOBEC program (GB project)

Website: https://www.bco-dmo.org/dataset/2421

Data Type: Cruise Results

Version: 1

Version Date: 2005-06-07

#### **Project**

» U.S. GLOBEC Georges Bank (GB)

#### **Program**

» U.S. GLOBal ocean ECosystems dynamics (U.S. GLOBEC)

Contributors	Affiliation	Role
Keuren, Jeff Van	Woods Hole Oceanographic Institution (WHOI)	Principal Investigator
Allison, Dicky	Woods Hole Oceanographic Institution (WHOI BCO-DMO)	BCO-DMO Data Manager

#### **Abstract**

Bacterial Cell Counts, biovolumes and biomass per taxon from epifluorescence microscopy from R/V Endeavor cruise EN321 in the Gulf of Maine and Georges Bank in 1999 as part of the U.S. GLOBEC program.

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### Coverage

**Spatial Extent**: N:42.1845 **E**:-66.59517 **S**:42.0967 **W**:-66.6013

Temporal Extent: 1999-03-31 - 1999-04-08

#### **Dataset Description**

#### **EN321**

# Bacterial Cell Counts, Biovolumes and Biomass per taxon from epifluorescence microscopy

Submitted by:

Michael Sieracki Bigelow Laboratory for Ocean Science McKown Pt. Road W. Boothbay Harbor, ME 04575 msieracki@bigelow.org

updated: June 7, 2005, gfh

# Methods & Sampling

EN321 Bacterial Cell Counts, Biovolumes and Biomass per taxon from epifluorescence microscopy

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#### **Data Files**

#### File

epiflu.csv(Comma Separated Values (.csv), 75.51 KB)
MD5:526e181dc8bd0ec92636f271cc3c22b1

Primary data file for dataset ID 2421

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#### **Parameters**

Parameter	Description	Units
cruiseid	ship cruise idenitification i.e. EN321	
year	year	
cast	CTD cast number from which the water samples were taken	
day_local	day of year local time	
month_local	month of year local time	
time_local	time of day local time	hours/minutes
lat	latitude, negative = South	decimal degrees
lon	longitude, negative = West	decimal degrees
depth_w	depth of water at time of cast	meters
taxon	organism group	
depth	depth at which the bottle was tripped	meters
num_class	total number of cells that were classified during a microscope slide transect	
number	number of cells counted per taxon	cells/milliliter
biomass_C	carbon biomass per taxon	micrograms C/liter
mean_biovolume	mean biovolume per taxon	cubic microns

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#### Instruments

Dataset- specific Instrument Name	SeabirdCTD
Generic Instrument Name	CTD Sea-Bird
Dataset- specific Description	Sea Bird CTD
Generic Instrument Description	Ivnown See also other Seakird instruments listed Linder (TL). More intermation from Sea Rird

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## **Deployments**

#### EN321

Website	https://www.bco-dmo.org/deployment/57428
Platform	R/V Endeavor
Start Date	1999-03-28
End Date	1999-04-11
	process
Description	Methods & Sampling EN321 Bacterial Cell Counts, Biovolumes and Biomass per taxon from epifluorescence microscopy

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# **Project Information**

U.S. GLOBEC Georges Bank (GB)

Website: http://globec.whoi.edu/globec\_program.html

**Coverage**: Georges Bank, Gulf of Maine, Northwest Atlantic Ocean

The U.S. GLOBEC <u>Georges Bank</u> Program is a large multi- disciplinary multi-year oceanographic effort. The proximate goal is to understand the population dynamics of key species on the Bank - Cod, <u>Haddock</u>, and two species of zooplankton (<u>Calanus finmarchicus</u> and <u>Pseudocalanus</u>) - in terms of their coupling to the physical environment and in terms of their <u>predators and prey</u>. The ultimate goal is to be able to predict changes in the distribution and abundance of these species as a result of changes in their physical and biotic environment as well as to anticipate how their populations might respond to climate change.

The effort is substantial, requiring broad-scale surveys of the entire Bank, and process studies which focus both on the links between the target species and their physical environment, and the determination of fundamental aspects of these species' life history (birth rates, growth rates, death rates, etc).

Equally important are the modelling efforts that are ongoing which seek to provide realistic predictions of the flow field and which utilize the life history information to produce an integrated view of the dynamics of the

populations.

The U.S. GLOBEC Georges Bank <u>Executive Committee (EXCO)</u> provides program leadership and effective communication with the funding agencies.

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# **Program Information**

#### U.S. GLOBal ocean ECosystems dynamics (U.S. GLOBEC)

Website: http://www.usglobec.org/

Coverage: Global

U.S. GLOBEC (GLOBal ocean ECosystems dynamics) is a research program organized by oceanographers and fisheries scientists to address the question of how global climate change may affect the abundance and production of animals in the sea.

The U.S. GLOBEC Program currently had major research efforts underway in the Georges Bank / Northwest Atlantic Region, and the Northeast Pacific (with components in the California Current and in the Coastal Gulf of Alaska). U.S. GLOBEC was a major contributor to International GLOBEC efforts in the Southern Ocean and Western Antarctic Peninsula (WAP).

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# **Funding**

Funding Source	Award
National Science Foundation (NSF)	unknown GB NSF
National Oceanic and Atmospheric Administration (NOAA)	unknown GB NOAA

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